

OIRP

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/899,732

ENTERED

CRF Processing Date: 8/21/2001

Edited by: A

Verified by: A

(STIC stat

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/lastname at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: moved 2237 response up one line - Seqs 16-17, 26-28

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

2/1/95

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/899,732

DATE: 08/21/2001  
TIME: 11:32:32

Input Set : A:\Pto.amc  
Output Set: N:\CRF3\08162001\I899732.raw

3 <110> APPLICANT: Salon et al, John A.  
5 <120> TITLE OF INVENTION: DNA Encoding A Human Melanin Concentrating Hormone  
6 Receptor (MCH1) And Uses Thereof  
8 <130> FILE REFERENCE: 1795/57453-C/JPW  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/899,732  
11 <141> CURRENT FILING DATE: 2001-07-05  
13 <150> PRIOR APPLICATION NUMBER: 09/610,635  
14 <151> PRIOR FILING DATE: 2000-07-05  
16 <160> NUMBER OF SEQ ID NOS: 28  
18 <170> SOFTWARE: PatentIn Ver. 2.1  
20 <210> SEQ ID NO: 1  
21 <211> LENGTH: 1269  
22 <212> TYPE: DNA  
23 <213> ORGANISM: Homo sapiens  
25 <400> SEQUENCE: 1  
26 atgtcagtgg gagccatgaa gaagggagtg gggagggcag ttgggcttgg aggcggcagc 60  
27 ggctgccagg ctacggagga agaccccctt cccgactgcg gggcttgccg tccgggacaa 120  
28 ggtggcaggc gctggaggct gccgcagcct gcgtgggtgg aggggagctc agctcggttg 180  
29 tgggagcagg cgaccggcac tggctggatg gacctggaag cctcgtgctg gccactgggt 240  
30 cccaatgcca gcaacacctc tgatggcccc gataacctca cttcagcagg atcacctcct 300  
31 cgcacgggga gcatctccta catcaacatc atcatgcctt cgggtgttcg caccatctgc 360  
32 ctctctggga tcatcgggaa ctccacgggc atcttcgcgg tcgtgaagaa gtccaagctg 420  
33 cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctcctc 480  
34 tttctcctgg gcatgccctt catgatccac cagctcatgg gcaatggggt gtggcacttt 540  
35 ggggagacca tgtgcaccct catcacggcc atggatgcca atagtcagtt caccagcacc 600  
36 tacatcctga ccgccatggc cattgaccgc tacctggcca ctgtccaccc catctcttcc 660  
37 acgaagtccc ggaagccctc tgtggccacc ctgggtgatc gcctcctgtg ggccctctcc 720  
38 ttcacagca tcacccctgt gtggctgtat gccagactca tccccttccc aggaggtgca 780  
39 gtgggctgcg gcatacgctt gcccaaccca gacactgacc tctactggtt caccctgtac 840  
40 cagtttttcc tggcctttgc cctgcctttt gtggtcata cagccgcata cgtgaggatc 900  
41 ctgcagcgca tgacgtctc agtggcccc gcctcccagc gcagcatccg gctgcggaca 960  
42 aagaggggtga cccgcacagc catcgccatc tgtctggtct tctttgtgtg ctgggcaccc 1020  
43 tactatgtgc tacagctgac ccagttgtcc atcagccgcc cgacctcac ctttgtctac 1080  
44 ttatacaatg cggccatcag cttgggctat gccaacagct gcctcaaccc ctttgtgtac 1140  
45 atcgtgctct gtgagacgtt ccgcaaacgc ttggtcctgt cgggtgaagcc tgcagcccag 1200  
46 gggcagcttc gcgctgtcag caacgctcag acggctgacg aggagaggac agaaagcaaa 1260  
47 ggcacctga 1269  
50 <210> SEQ ID NO: 2  
51 <211> LENGTH: 422  
52 <212> TYPE: PRT  
53 <213> ORGANISM: Homo sapiens  
55 <400> SEQUENCE: 2  
56 Met Ser Val Gly Ala Met Lys Lys Gly Val Gly Arg Ala Val Gly Leu  
57 1 5 10 15  
59 Gly Gly Gly Ser Gly Cys Gln Ala Thr Glu Glu Asp Pro Leu Pro Asp  
60 20 25 30  
62 Cys Gly Ala Cys Ala Pro Gly Gln Gly Gly Arg Arg Trp Arg Leu Pro

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63          35          40          45
65 Gln Pro Ala Trp Val Glu Gly Ser Ser Ala Arg Leu Trp Glu Gln Ala
66          50          55          60
68 Thr Gly Thr Gly Trp Met Asp Leu Glu Ala Ser Leu Leu Pro Thr Gly
69 65          70          75          80
71 Pro Asn Ala Ser Asn Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala
72          85          90          95
74 Gly Ser Pro Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met
75          100          105          110
77 Pro Ser Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser
78          115          120          125
80 Thr Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
81          130          135          140
83 Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu Leu
84 145          150          155          160
86 Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly Asn Gly
87          165          170          175
89 Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr Ala Met Asp
90          180          185          190
92 Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr Ala Met Ala Ile
93          195          200          205
95 Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg
96          210          215          220
98 Lys Pro Ser Val Ala Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser
99 225          230          235          240
101 Phe Ile Ser Ile Thr Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe
102          245          250          255
104 Pro Gly Gly Ala Val Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr
105          260          265          270
107 Asp Leu Tyr Trp Phe Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu
108          275          280          285
110 Pro Phe Val Val Ile Thr Ala Ala Tyr Val Arg Ile Leu Gln Arg Met
111          290          295          300
113 Thr Ser Ser Val Ala Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr
114 305          310          315          320
116 Lys Arg Val Thr Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val
117          325          330          335
119 Cys Trp Ala Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser
120          340          345          350
122 Arg Pro Thr Leu Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu
123          355          360          365
125 Gly Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
126          370          375          380
128 Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln
129 385          390          395          400
131 Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Thr Ala Asp Glu Glu Arg
132          405          410          415
134 Thr Glu Ser Lys Gly Thr
135          420

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138 <210> SEQ ID NO: 3
139 <211> LENGTH: 1214
140 <212> TYPE: DNA
141 <213> ORGANISM: Rattus norvegicus
143 <400> SEQUENCE: 3
144 gcaggcgacc tgcaccggct gcatggatct gcaaacctcg ttgctgtcca ctggccccc aa 60
145 tgccagcaac atctccgatg gccaggataa tctcacattg ccgggggtcac ctctctgcac 120
146 agggagtgtc tcttacatca acatcattat gccttccgtg tttggtagca tctgtctcct 180
147 gggcatcgtg ggaaactcca cggtcattct tgctgtgggt aagaagtcca agctacactg 240
148 gtgcagcaac gtccccgaca tcttcattcat caacctctct gtgggtggatc tgctcttcct 300
149 gctgggcatg cctttcatga tccaccagct catggggaac ggcgtctggc actttgggga 360
150 aaccatgtgc accctcatca cagccatgga cgccaacagt cagttcacta gcacctacat 420
151 cctgactgcc atgaccattg accgctactt ggccaccgtc caccctctct cctccaccaa 480
152 gttccggaag cctccatgg ccacctggt gatctgcctc ctgtggggcg tctccttcat 540
153 cagtatcacc cctgtgtggc tctacgccag gctcattccc tccccagggg gtgctgtggg 600
154 ctgtggcacc cgctgcca acccggacac tgacctctac tggttcactc tgtaccagtt 660
155 tttcctggcc tttgcccttc cgtttgtggt cattaccgcc gcatacgtga aaatactaca 720
156 gcgcagtacg tcttcggtgg cccagcctc ccaacgcagc atccggcttc ggacaaagag 780
157 ggtgaccgcg acggccattg ccatctgtct ggtcttcttt gtgtgctggg caccctacta 840
158 tgtgtgcag ctgaccagc tgtccatcag ccgcccagac ctacgcttg tctacttgta 900
159 caacgcggcc atcagcttg gctatgctaa cagctgcctg aaccctttg tgtacatagt 960
160 gctctgtgag acctttcgaa aacgcttggg gttgtcagtg aagcctgcag cccaggggca 1020
161 gctccgcacg gtcagcaacg ctacagacagc tgatgaggag aggacagaaa gcaaaggcac 1080
162 ctgacaattc cccagtcgcc tccaagtcag gccaccccat caaacctgg ggagagatac 1140
163 tgagattaaa cccaaggcta cctgggaga atgcagaggc tggaggctgg ggcctttag 1200
164 caaccacatt ccac 1214

167 <210> SEQ ID NO: 4
168 <211> LENGTH: 353
169 <212> TYPE: PRT
170 <213> ORGANISM: Rattus norvegicus
172 <400> SEQUENCE: 4
173 Met Asp Leu Gln Thr Ser Leu Leu Ser Thr Gly Pro Asn Ala Ser Asn
174 1 5 10 15
176 Ile Ser Asp Gly Gln Asp Asn Leu Thr Leu Pro Gly Ser Pro Pro Arg
177 20 25 30
179 Thr Gly Ser Val Ser Tyr Ile Asn Ile Ile Met Pro Ser Val Phe Gly
180 35 40 45
182 Thr Ile Cys Leu Leu Gly Ile Val Gly Asn Ser Thr Val Ile Phe Ala
183 50 55 60
185 Val Val Lys Lys Ser Lys Leu His Trp Cys Ser Asn Val Pro Asp Ile
186 65 70 75 80
188 Phe Ile Ile Asn Leu Ser Val Val Asp Leu Leu Phe Leu Leu Gly Met
189 85 90 95
191 Pro Phe Met Ile His Gln Leu Met Gly Asn Gly Val Trp His Phe Gly
192 100 105 110
194 Glu Thr Met Cys Thr Leu Ile Thr Ala Met Asp Ala Asn Ser Gln Phe
195 115 120 125
197 Thr Ser Thr Tyr Ile Leu Thr Ala Met Thr Ile Asp Arg Tyr Leu Ala
198 130 135 140

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200 Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg Lys Pro Ser Met Ala
201 145                      150                      155                      160
203 Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr
204                      165                      170                      175
206 Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val
207                      180                      185                      190
209 Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe
210                      195                      200                      205
212 Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile
213                      210                      215                      220
215 Thr Ala Ala Tyr Val Lys Ile Leu Gln Arg Met Thr Ser Ser Val Ala
216 225                      230                      235                      240
218 Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr Arg
219                      245                      250                      255
221 Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala Pro Tyr
222                      260                      265                      270
224 Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro Thr Leu Thr
225                      275                      280                      285
227 Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly Tyr Ala Asn Ser
228                      290                      295                      300
230 Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys Glu Thr Phe Arg Lys
231 305                      310                      315                      320
233 Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln Gly Gln Leu Arg Thr
234                      325                      330                      335
236 Val Ser Asn Ala Gln Thr Ala Asp Glu Arg Thr Glu Ser Lys Gly
237                      340                      345                      350
239 Thr
243 <210> SEQ ID NO: 5
244 <211> LENGTH: 26
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
251 <400> SEQUENCE: 5
252 gggaactcca cggatcatctt cgcggt                      26
255 <210> SEQ ID NO: 6
256 <211> LENGTH: 26
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
263 <400> SEQUENCE: 6
264 tagcgggtcaa tggccatggc ggtcag                      26
267 <210> SEQ ID NO: 7
268 <211> LENGTH: 45
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe

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275 <400> SEQUENCE: 7
276 ctctctgggca tgcccttcat gatccaccag ctcatgggca atggg          45
279 <210> SEQ ID NO: 8
280 <211> LENGTH: 25
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
287 <400> SEQUENCE: 8
288 cttctaggcc tgtacggaag tgtta          25
291 <210> SEQ ID NO: 9
292 <211> LENGTH: 27
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
299 <400> SEQUENCE: 9
300 gttgtggttt gtccaaactc atcaatg          27
303 <210> SEQ ID NO: 10
304 <211> LENGTH: 37
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
311 <400> SEQUENCE: 10
312 cgcggatcca ttatgtctgc actccgaagg aaatttg          37
315 <210> SEQ ID NO: 11
316 <211> LENGTH: 38
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
323 <400> SEQUENCE: 11
324 cgcgaattct tatgtgaagc gatcagagtt catttttc          38
327 <210> SEQ ID NO: 12
328 <211> LENGTH: 34
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
335 <400> SEQUENCE: 12
336 gcgggatccg ctatggctgg tgattctagg aatg          34
339 <210> SEQ ID NO: 13
340 <211> LENGTH: 29
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
347 <400> SEQUENCE: 13

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VERIFICATION SUMMARY

DATE: 08/21/2001

PATENT APPLICATION: US/09/899,732

TIME: 11:32:33

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08162001\I899732.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number